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## Formatted Alignments of AAV Genomes

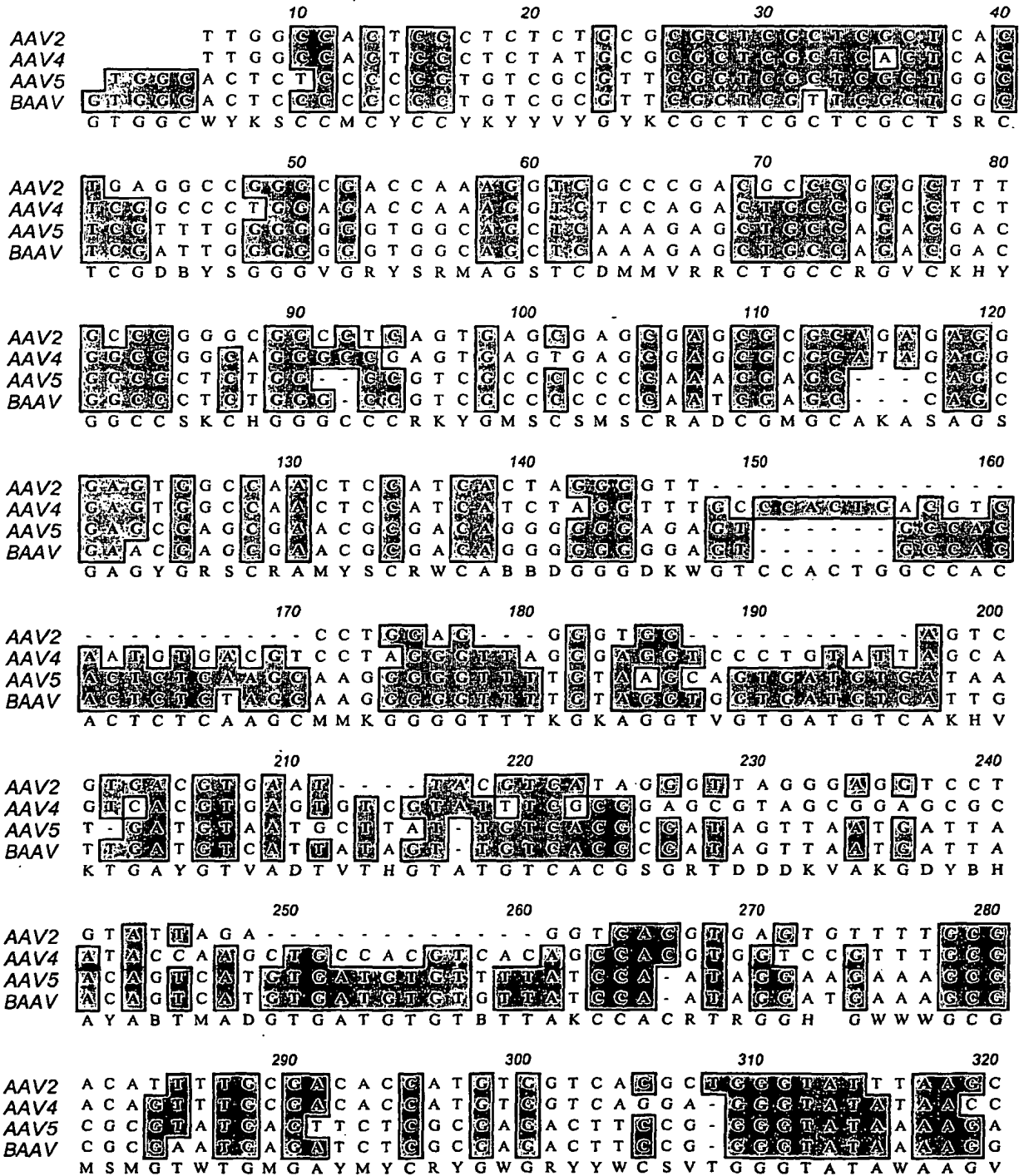


FIG. 1A

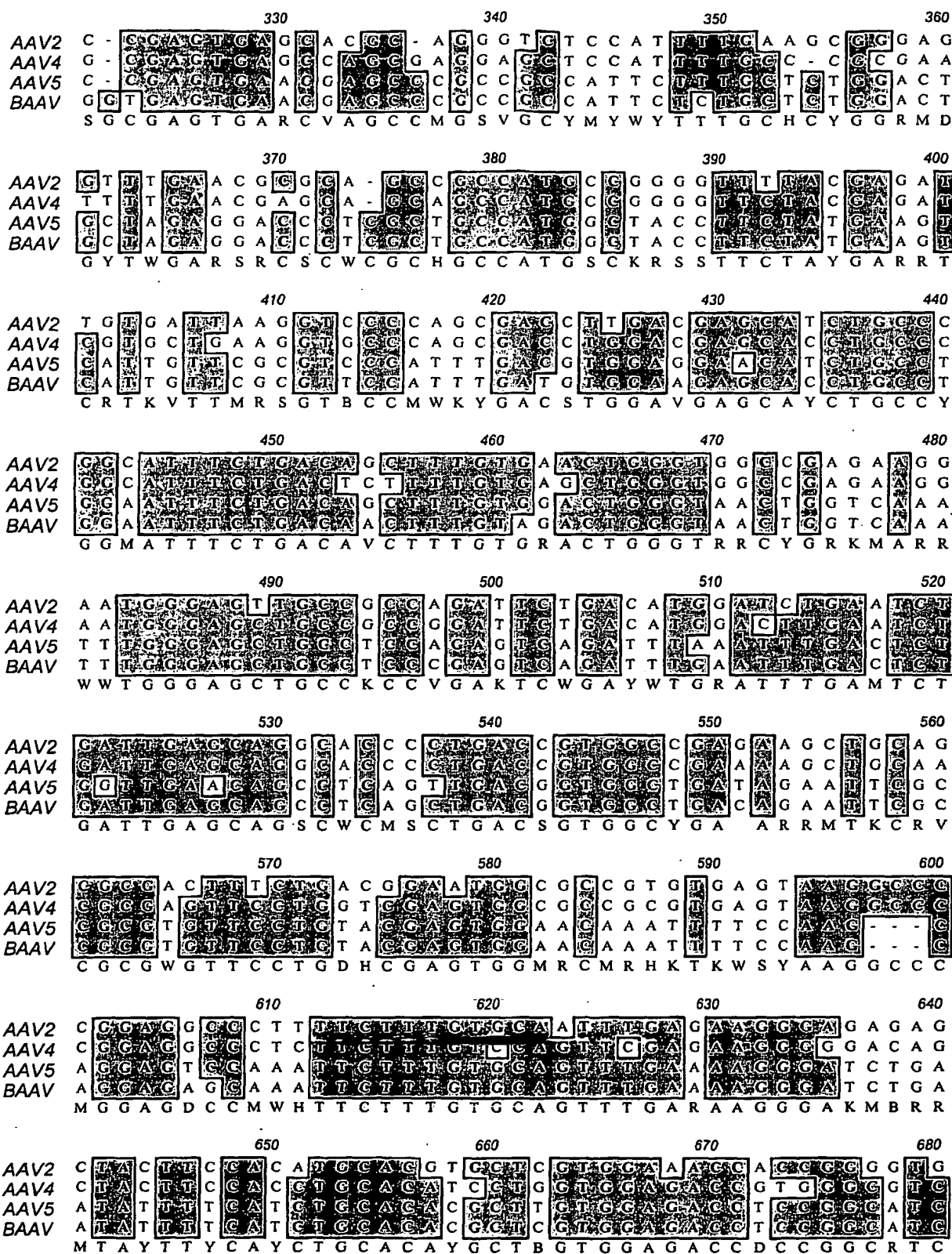


FIG. 1A (cont'd)

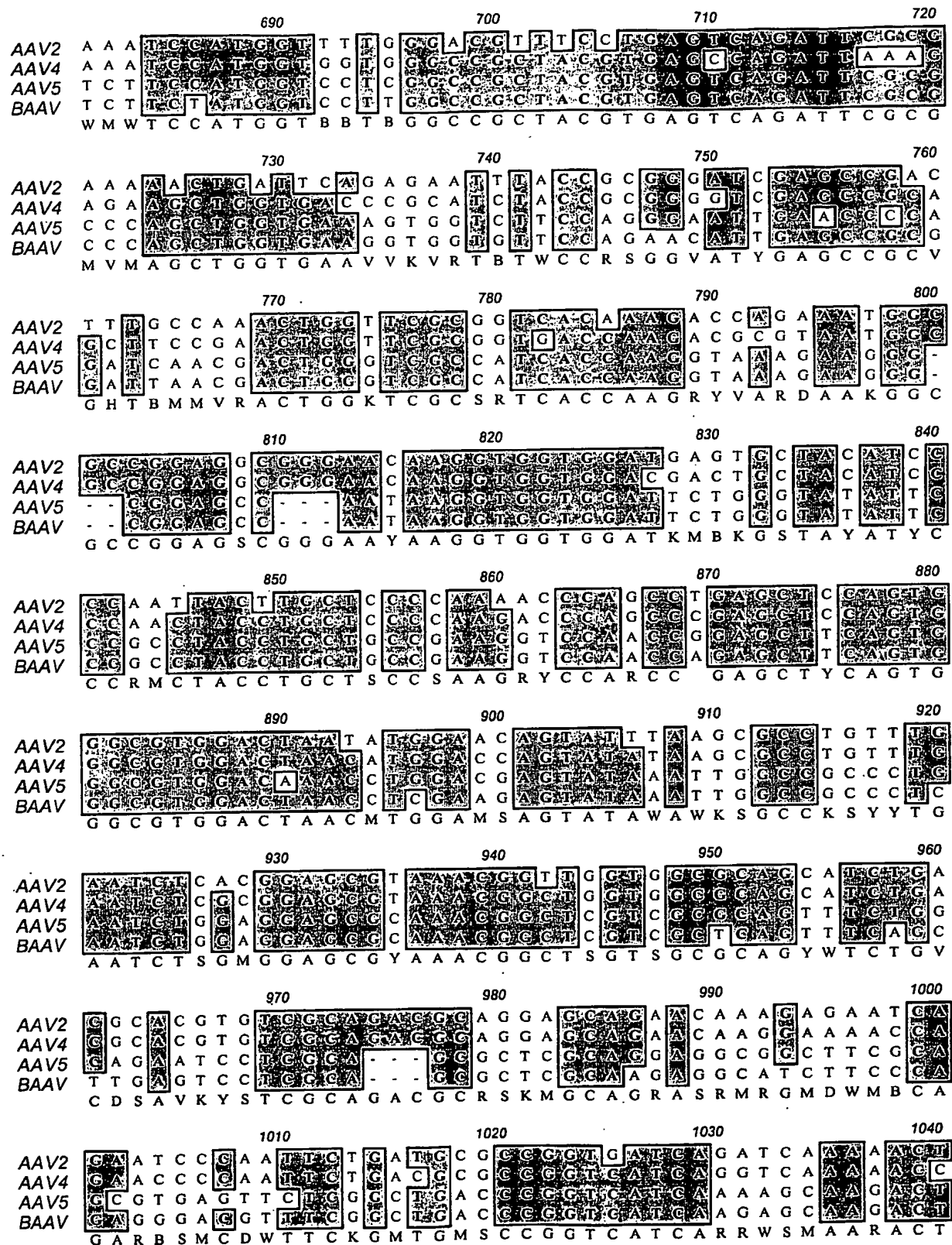


FIG. 1A (cont'd)

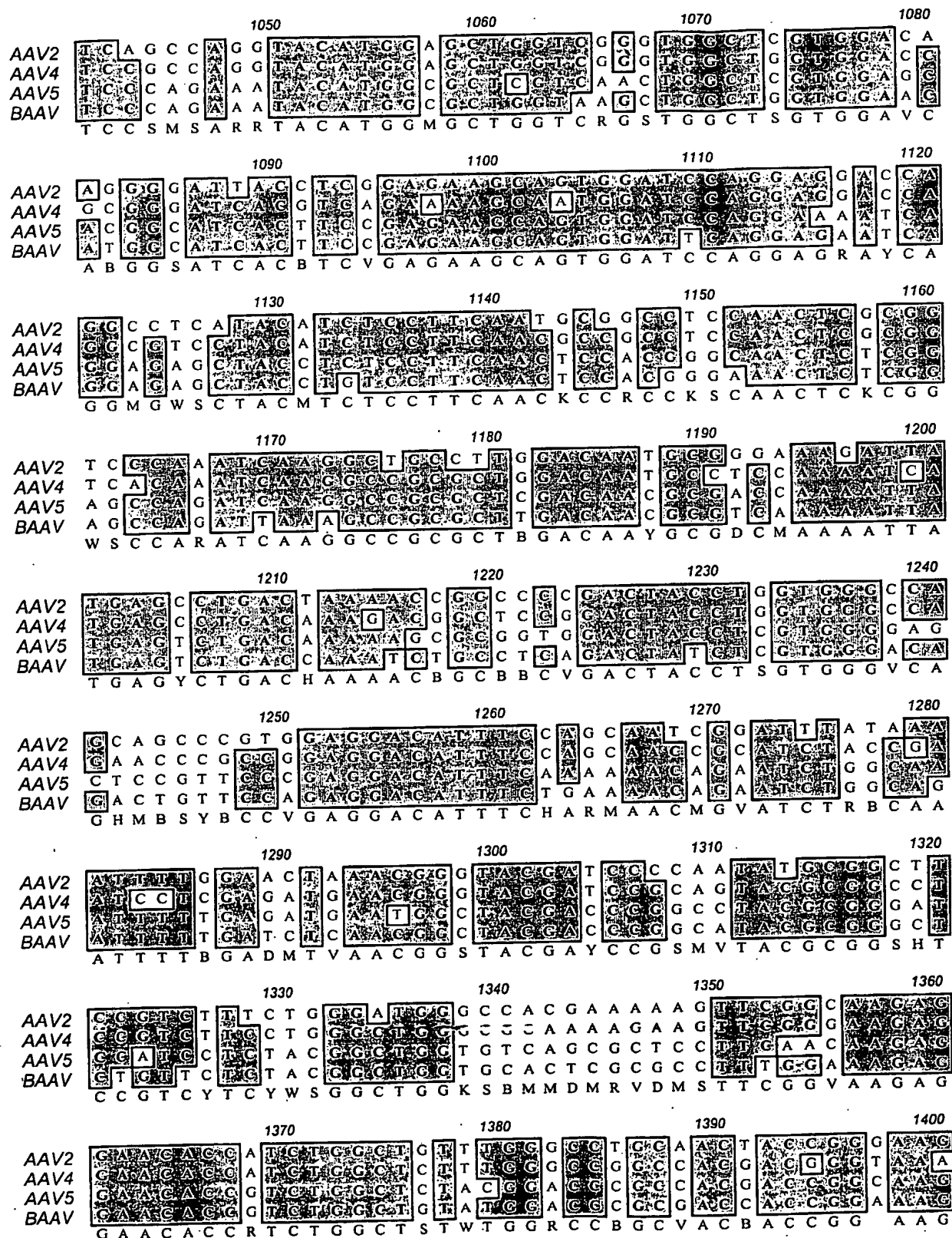


FIG. 1A (cont'd)

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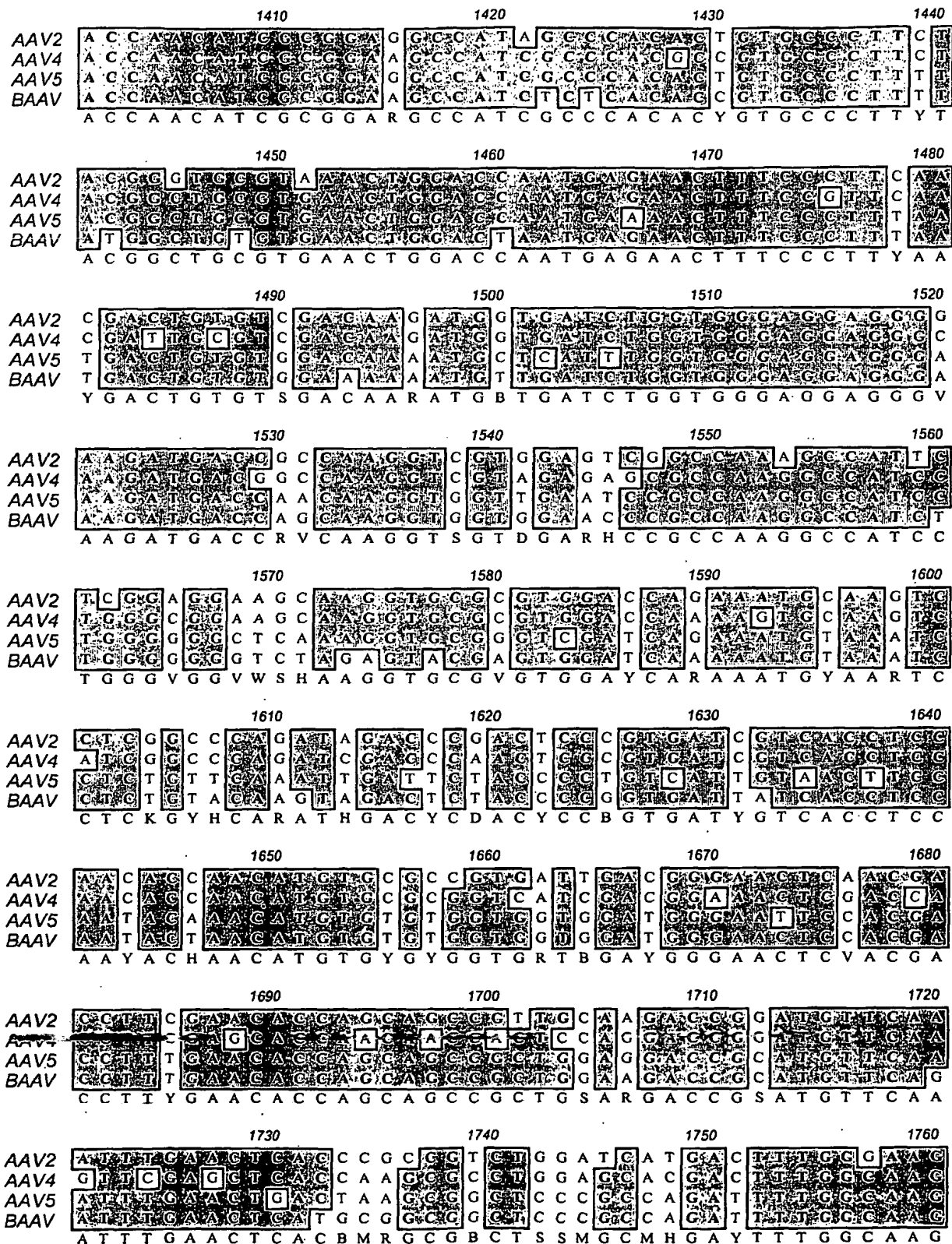


FIG. 1A (cont'd)

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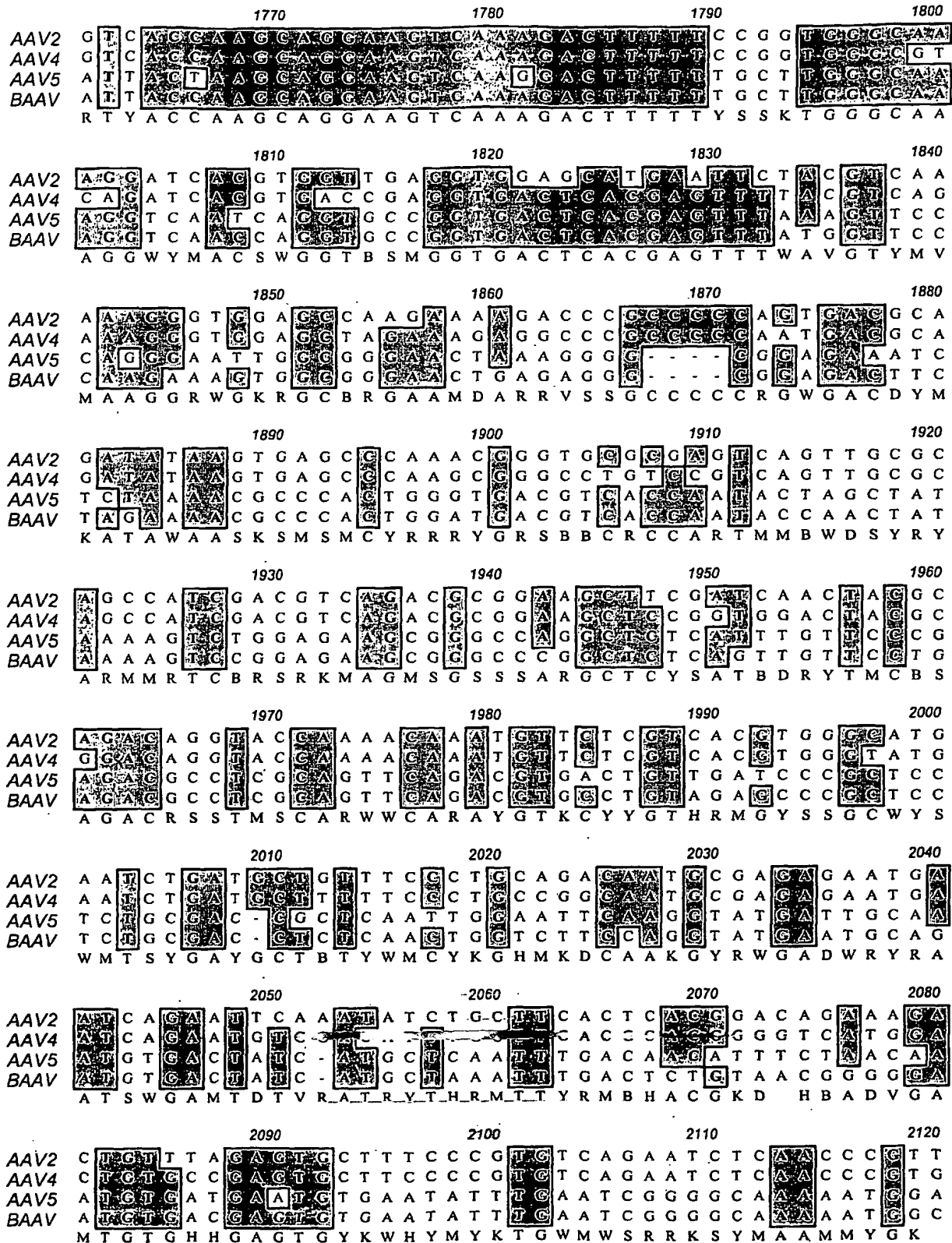


FIG. 1A (cont'd)

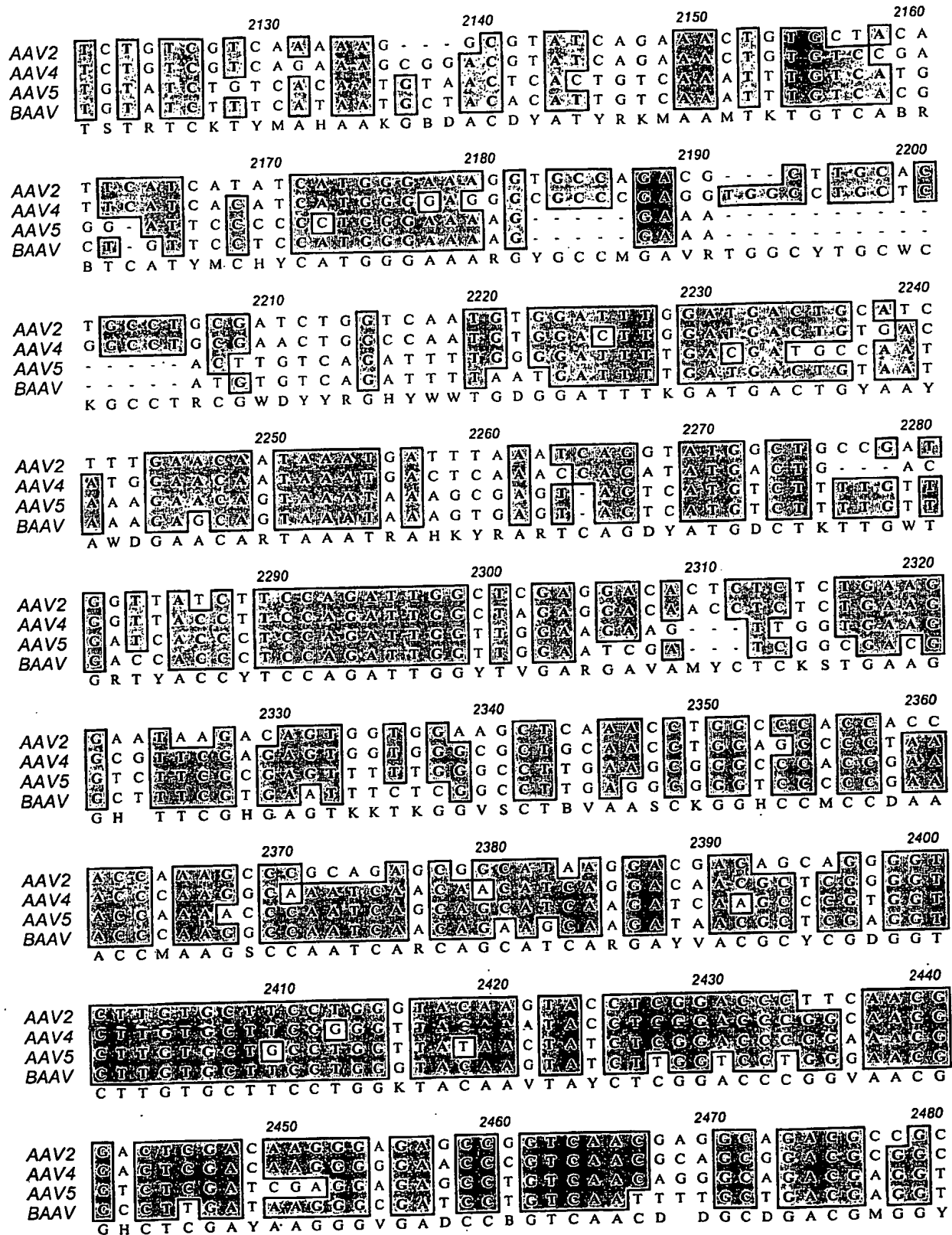


FIG. 1A (cont'd)



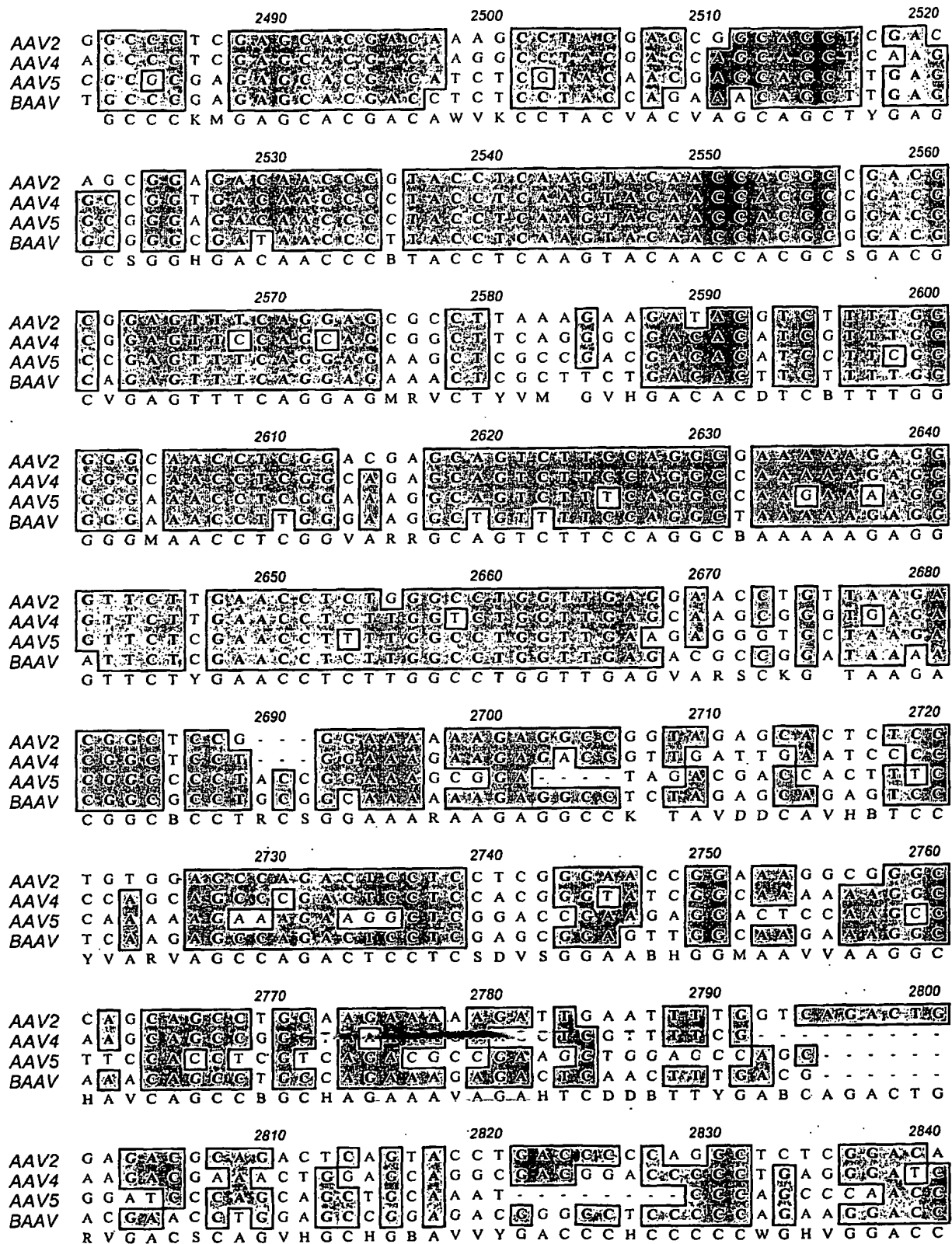


FIG. 1A (cont'd)



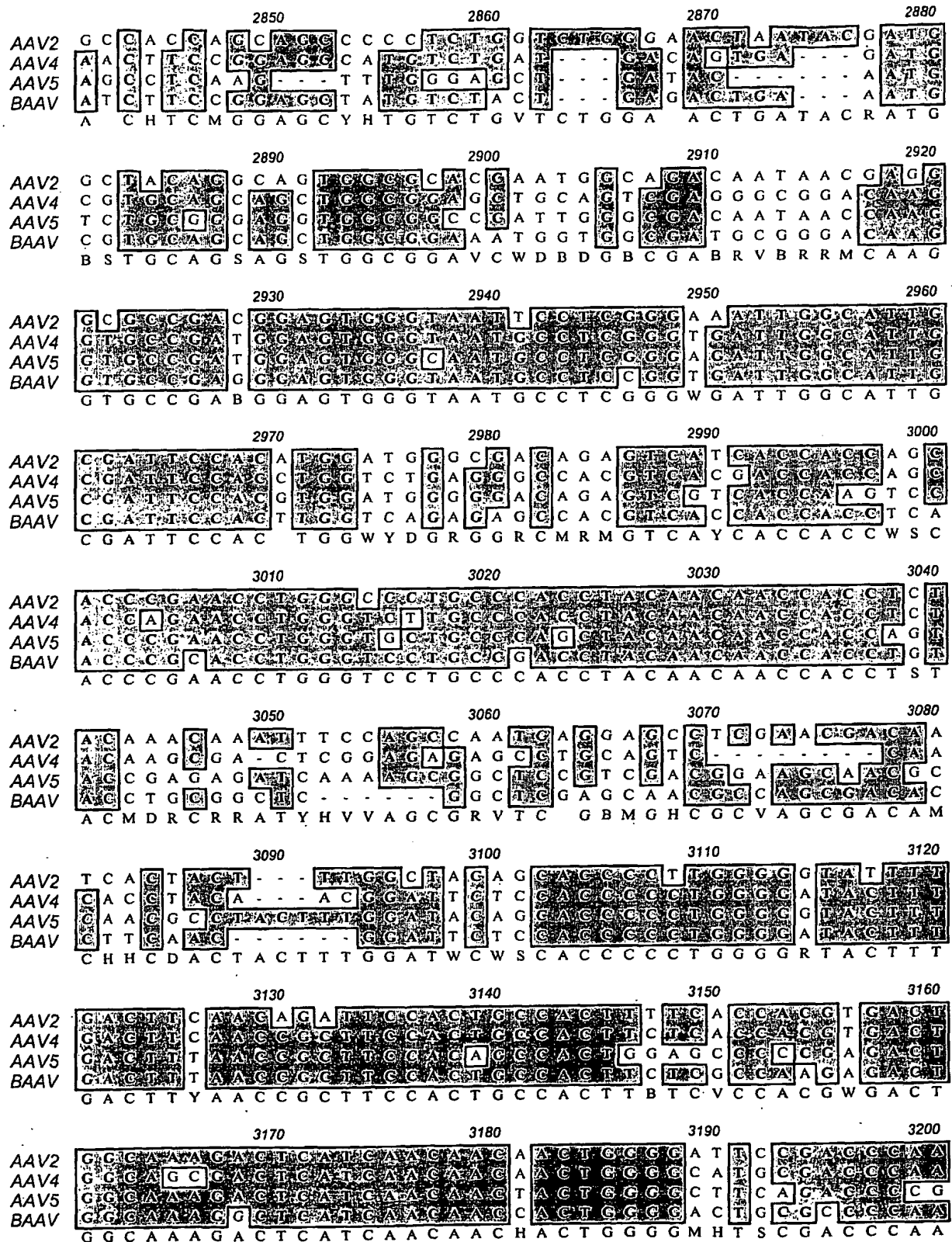


FIG. 1A (cont'd)

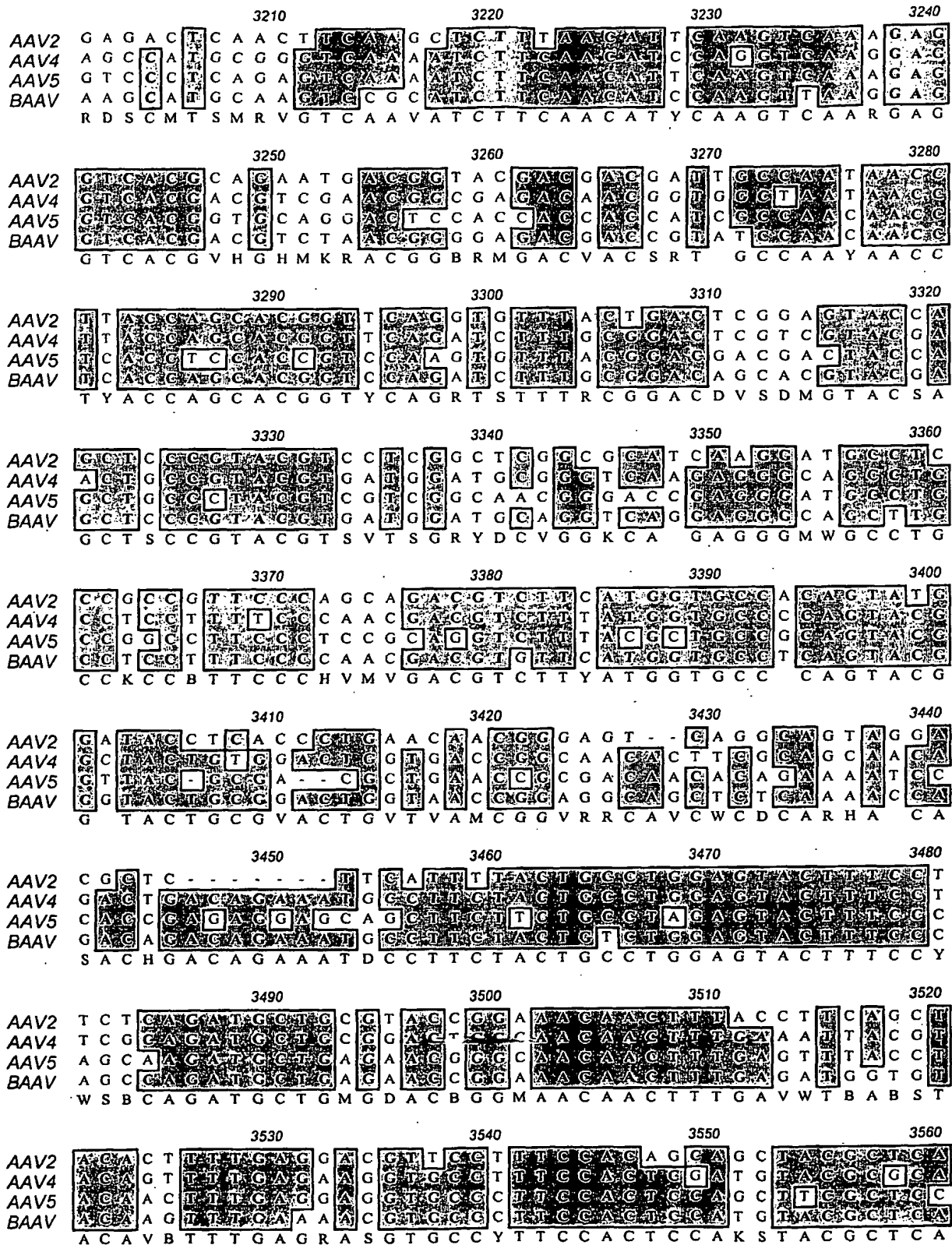


FIG. 1A (cont'd)

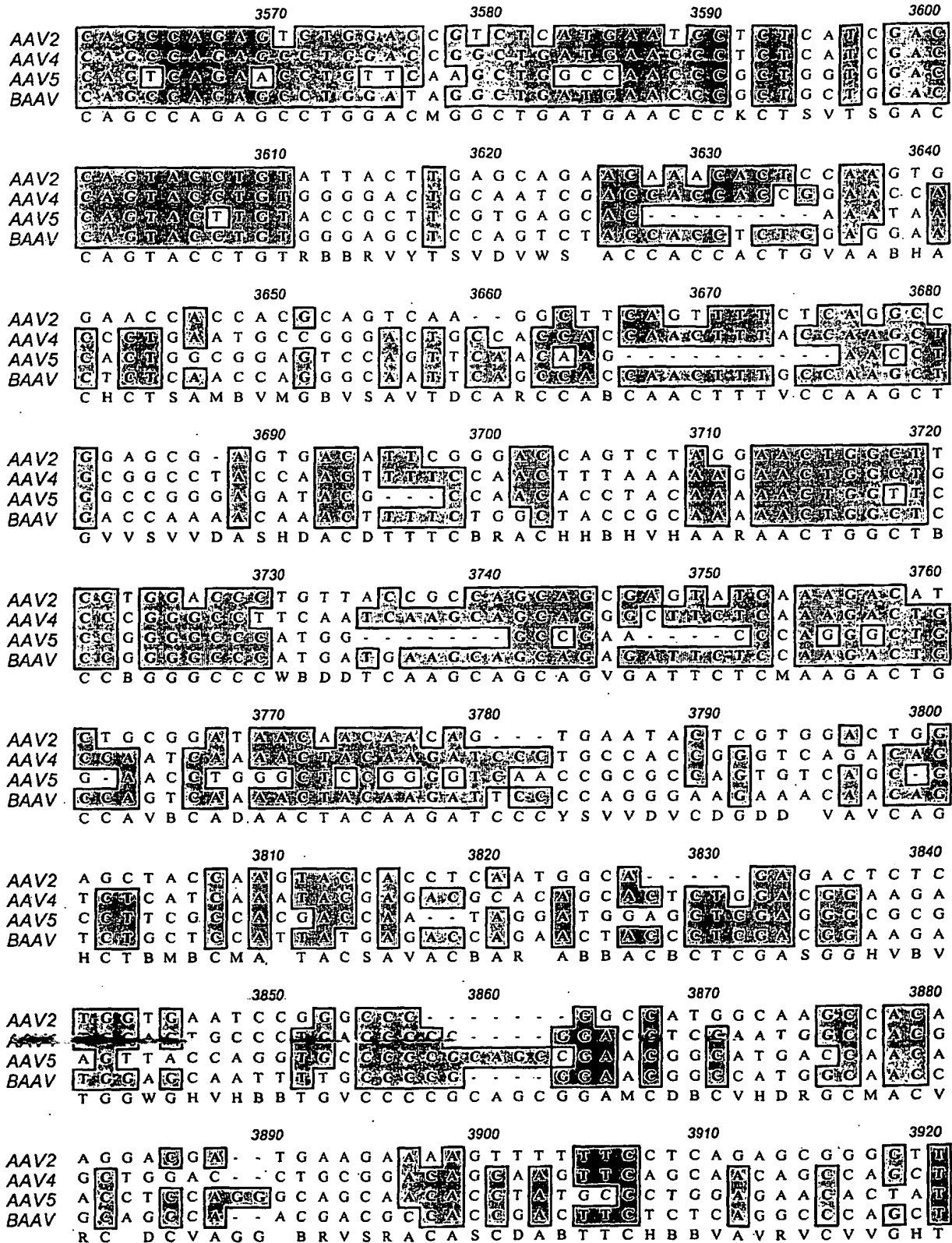


FIG. 1A (cont'd)

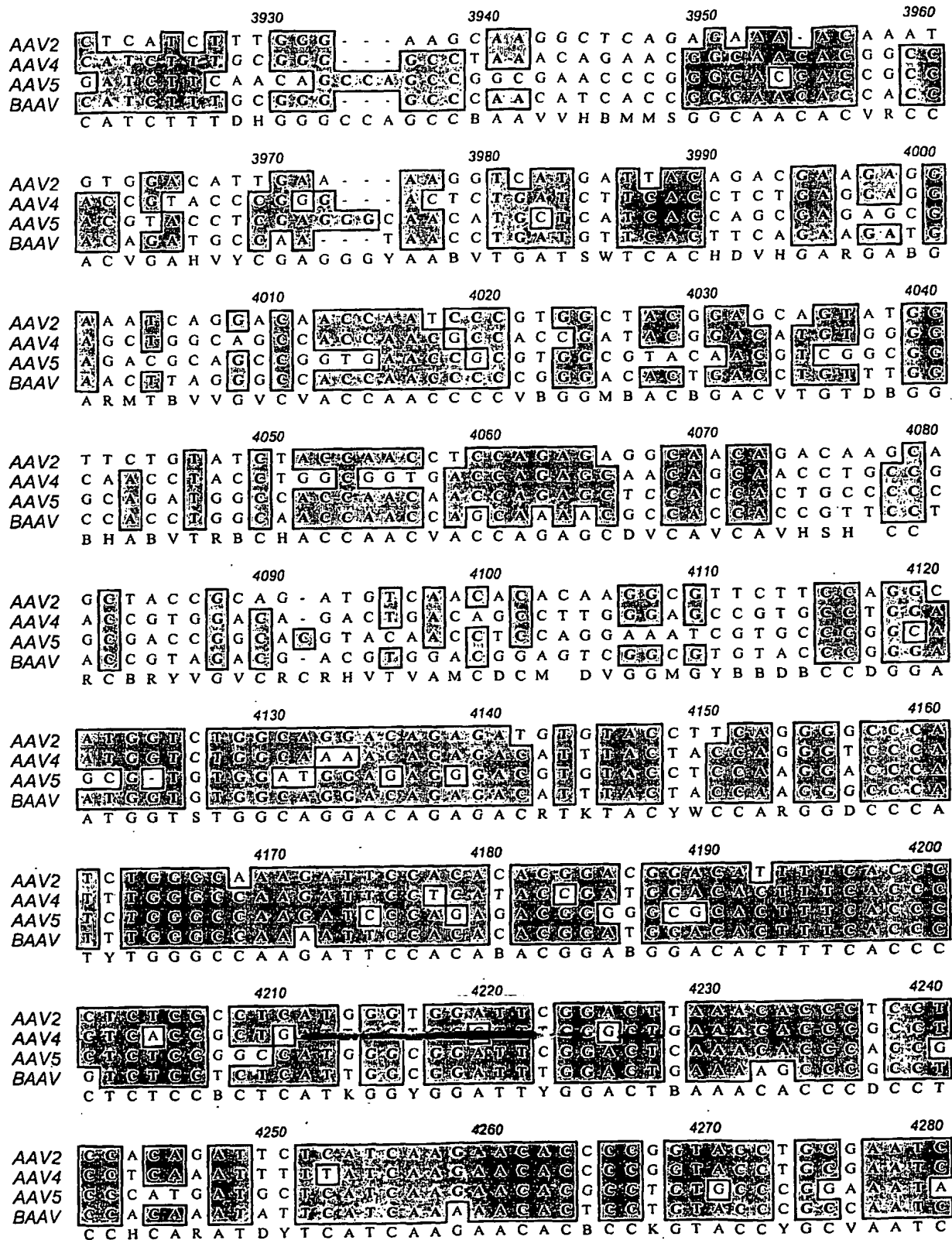


FIG. 1A (cont'd)

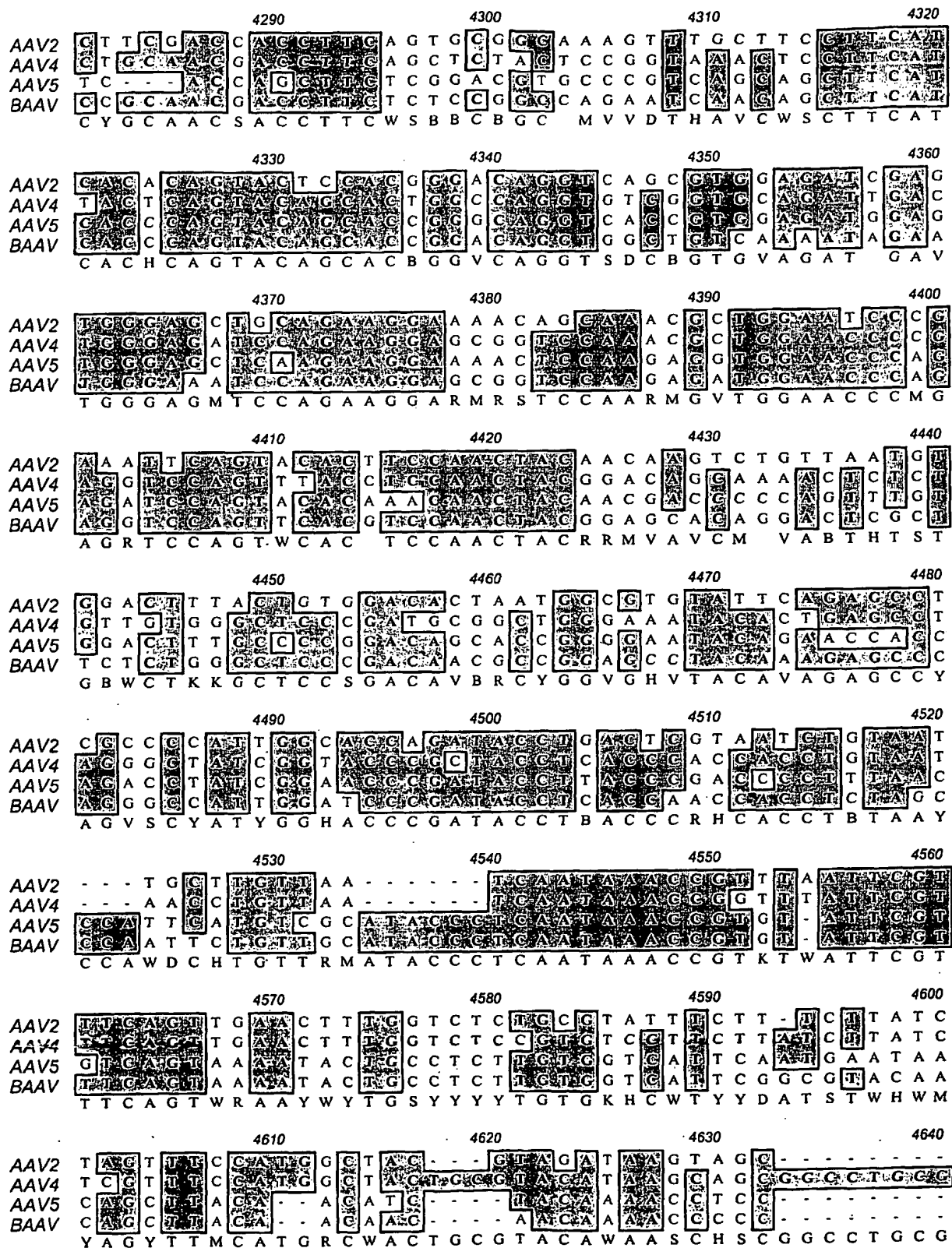


FIG. 1A (cont'd)

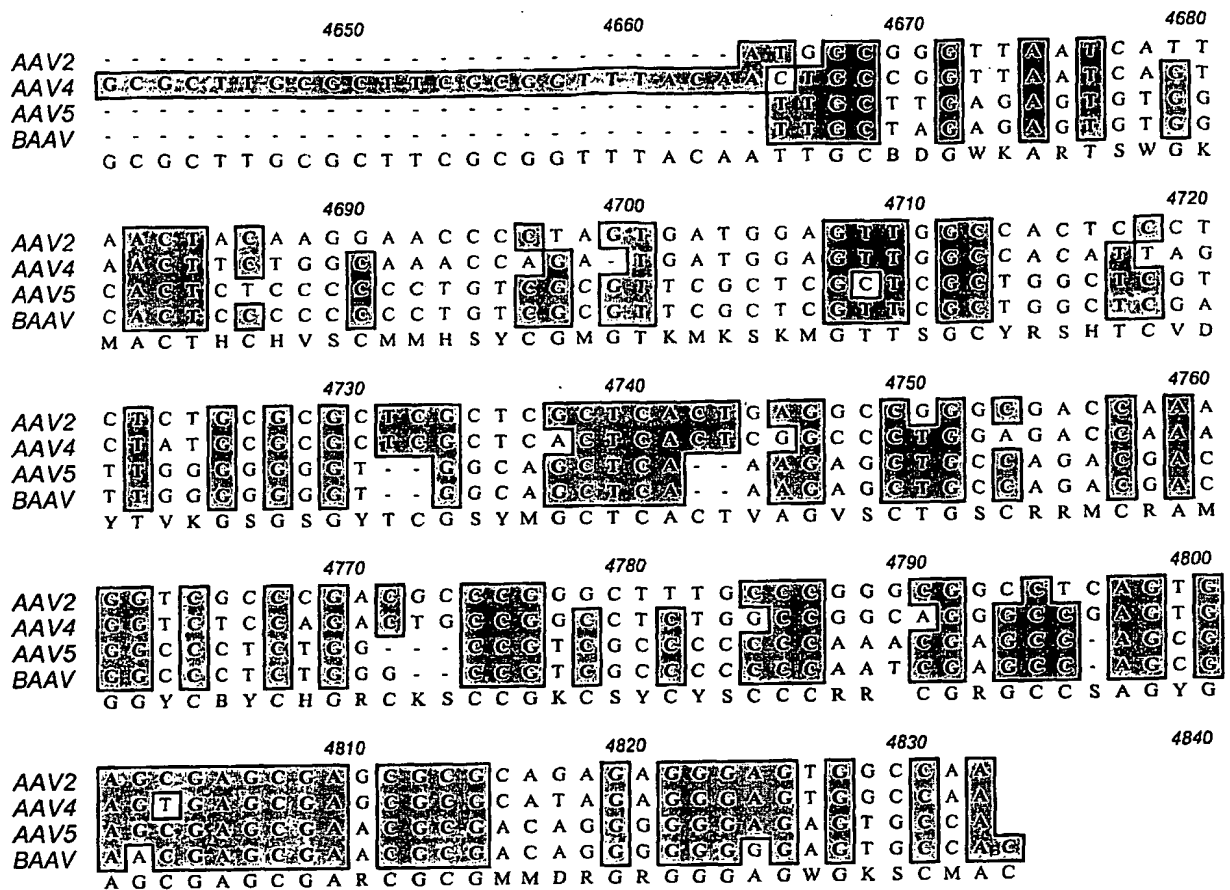


FIG. 1A (cont'd)

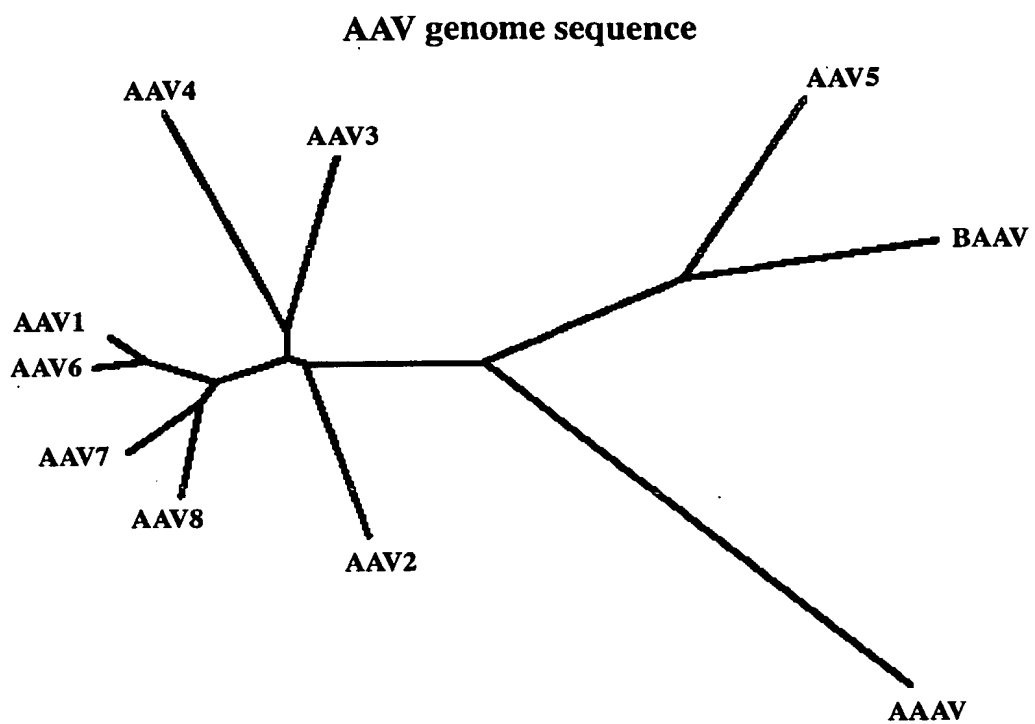
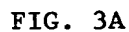


FIG. 1B







## VP1

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AAV4 1 M T G G L L P D W L G D L E E G V L W W A L O P G L P L E A N T W H V D N T R G L V L P G V A V L G P L G L D 69  
BAAV 1 M S F V D H F L D W L L F L P D G F R P F L G L E A G V L P K A S Q Q K R D N A R G L V L P G V L V L G P L G L D 59

AAV2 61 K G L V V N F A D A A A L L Y H K A Y D R Q L D S D N T V L K Y N R A D A F F O R K L K E D T V F G G L G R A V F Q 120  
AAV4 60 K G L V V N F A D A A A L L Y H K A Y D R Q L D S D N T V L K Y N R A D A F F O R K L K E D T V F G G L G R A V F Q 119  
BAAV 60 K G D P V N F A D E V A R R D L S Y Q X Q L E A G D N P V A R Y N R A D A F F O R K L A S D T V F G G L G R A V F Q 119

AAV2 121 A K R R V L E D L G L V E F V K T A P G K S K P V R H S P V L P D S S S G T P K A L O T F A N N A L N D G Q T G D A 179  
AAV4 120 A K R R V L E D L G L V E F V K T A P G K S K P V R H S P V L P D S S S G T P K A L O T F A N N A L N D G Q T G D A 178  
BAAV 120 A K R R I L E D L G L V E F V K T A P A A K R P L D S P V L P D S S S G V G K K G K Q P A R K R A N P D D G P S A 179

AAV2 180 D S V P D P O T L G Q P F A A P S G L G T N T M A T G S A P M A D N N E F A D G V G N S S G N N H C D E T W M G D R V 239  
AAV4 179 G U G P - - - P L G S L S G A M S - - D P S F H A A A G G A K V E L G C A D G V G N A S G W W D C D S T W S L O H V 233  
BAAV 180 G D G P - - - P E G P S S G A M S - - T E T M R A A A G G A G G A G C A E C V G N A R G D W H C D S T V S E S H V 235

AAV2 240 I T T S T H W A L P T V N N E L V Q I S S G S G A S N D N H Y G V S T P W G V F D N R V H C H P S P R D W Q L L 269  
AAV4 234 L T T S T H W L V P T V N N E L V Q I S S G A S N D N H Y G V S T P W G V F D N R V H C H P S P R D W Q L L 290  
BAAV 236 R T T T R T R W V L P T V N N H L Y A L G S E - - N A S D F S G T S T P W G V F D N R V H C H P S P R D W Q L L 292

AAV2 300 P N N W W F R P R L N P K L I N I Q V K K V N D R I T I A N N L T S T V Q V P I D E L Y O L P V V L G S A H Q 359  
AAV4 291 P N N W W F R P R L N P K L I N I Q V K K V N D R I T I A N N L T S T V Q V P I D E L Y O L P V V L G S A H Q 350  
BAAV 293 P N N W W F R P R L N P K L I N I Q V K K V N D R I T I A N N L T S T V Q V P I D E L Y O L P V V L G S A H Q 352

AAV2 360 G C L P P P P A D V M V P O V G V L T E N N G - - - S R A V G A S S F V G L V L Y S Q L S H V G N N I T F S Y T V E 418  
AAV4 351 G U L P P P P D V M V P O V G V G L V T E N N G - - - S R A V G A S S F V G L V L Y S Q L S H V G N N I T F S Y T V E 410  
BAAV 353 G A L P P P P D V M V P O V G V G L V T E N N G - - - S R A V G A S S F V G L V L Y S Q L S H V G N N I T F S Y T V E 412

AAV2 417 D V P P H S Y A H S S L D R L M N P L I D Q V L Y E S R N N P S G T T T Q S R L S V S Q A C A S D I R D Q S R 475  
AAV4 411 K V D P H S Y A H S S L D R L M N P L I D Q V L Y E S R N N P S G T T T Q S R L S V S Q A C A S D I R D Q S R 470  
BAAV 413 N V D P H S Y A H S S L D R L M N P L I D Q V L Y E S R N N P S G T T T Q S R L S V S Q A C A S D I R D Q S R 472

AAV2 476 N W L V G V Y A V V R V L A S A D N N S R Y S W T D - - - A K Y H H N C T D S L V N V C L P D S S H K D L E 530  
AAV4 471 N W L P G D S I X Q Q G F R K T A N N Y S U A T G S D S L K Y H H S L D G R W S A L P G P R A T A G P A D 530  
BAAV 473 N W L P G D S I X Q Q G F R K T A S Q N V K O L P Q R N N S L H Y E A R T P D D G R W S A L P G P R A T A G P A D 532

AAV2 531 E P T P F Q S G V L L F Q S Q D S E K L N V D I E K V N I M P L L S I R I T F P L Y A T L Q L S V S G N L U R C N R Q A 590  
AAV4 531 S R P S N S D L R A G P K Q N G - N A A V F O T I P T S G C A A A R K A T D P D M W E N L P G G D Q S N S N L P 589  
BAAV 533 T P F R O A D L R A G P N I T G - S N T T W A N N L M P T S G D E R A A R K A D P D L F G H A A G N Q N A T T V P 591

AAV2 591 A T A P N T Q S V L Y C M V V V L C U M Y L A C I T S S T P L T D G H F P P P L I G G F G L K I P P Q I P L K N 650  
AAV4 590 T V D R L T A L G A V P C M V V Q N D I V Y G P I W A K I P D T D G H F P P P L I G G F G L K I P P Q I P L K N 649  
BAAV 592 R V D D V D V G V Y P C M V V Q D R D I V Y G P I W A K I P D T D G H F P P P L I G G F G L K I P P Q I P L K N 651

AAV2 651 P P V P A N P A T T P S T P V N S I T Q V S T G Q V S V Q I D W E I Q K R K S K A W N P E V Q P S N V G A Q N S L 710  
AAV4 650 P P V P A N P A T T P S T P V N S I T Q V S T G Q V S V Q I D W E I Q K R K S K A W N P E V Q P S N V G A Q N S L 709  
BAAV 652 P P V P A N P A T T P S T P V N S I T Q V S T G Q V S V Q I D W E I Q K R K S K A W N P E V Q P S N V G A Q N S L 711

AAV2 711 D F T V D T H G V V S L U H L F G T R V L R N D 735  
AAV4 710 G A N G A F G A T E P R A I G T R V L R N D 734  
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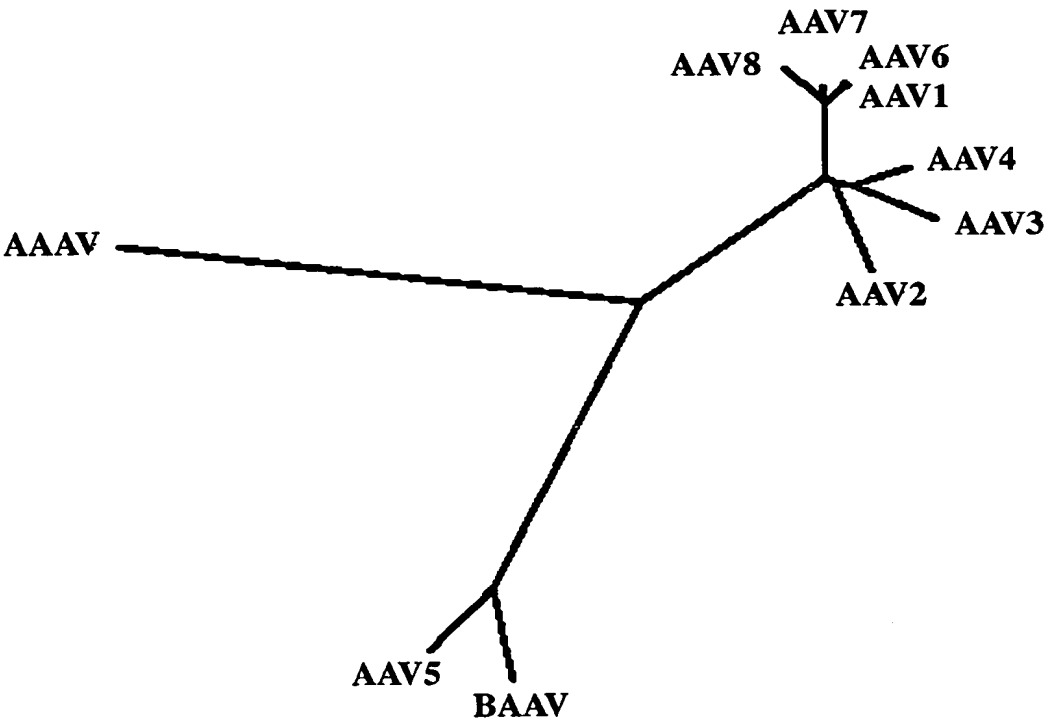


FIG. 3C

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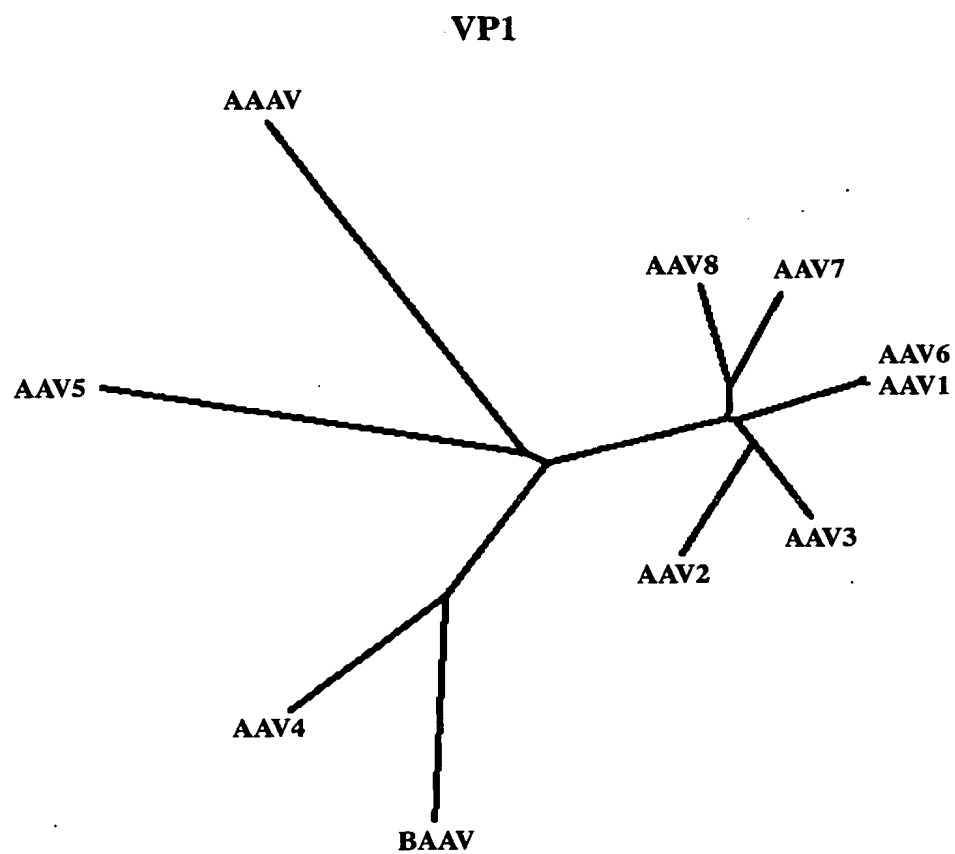


FIG. 3D

rBAAV-lacZ Transduction

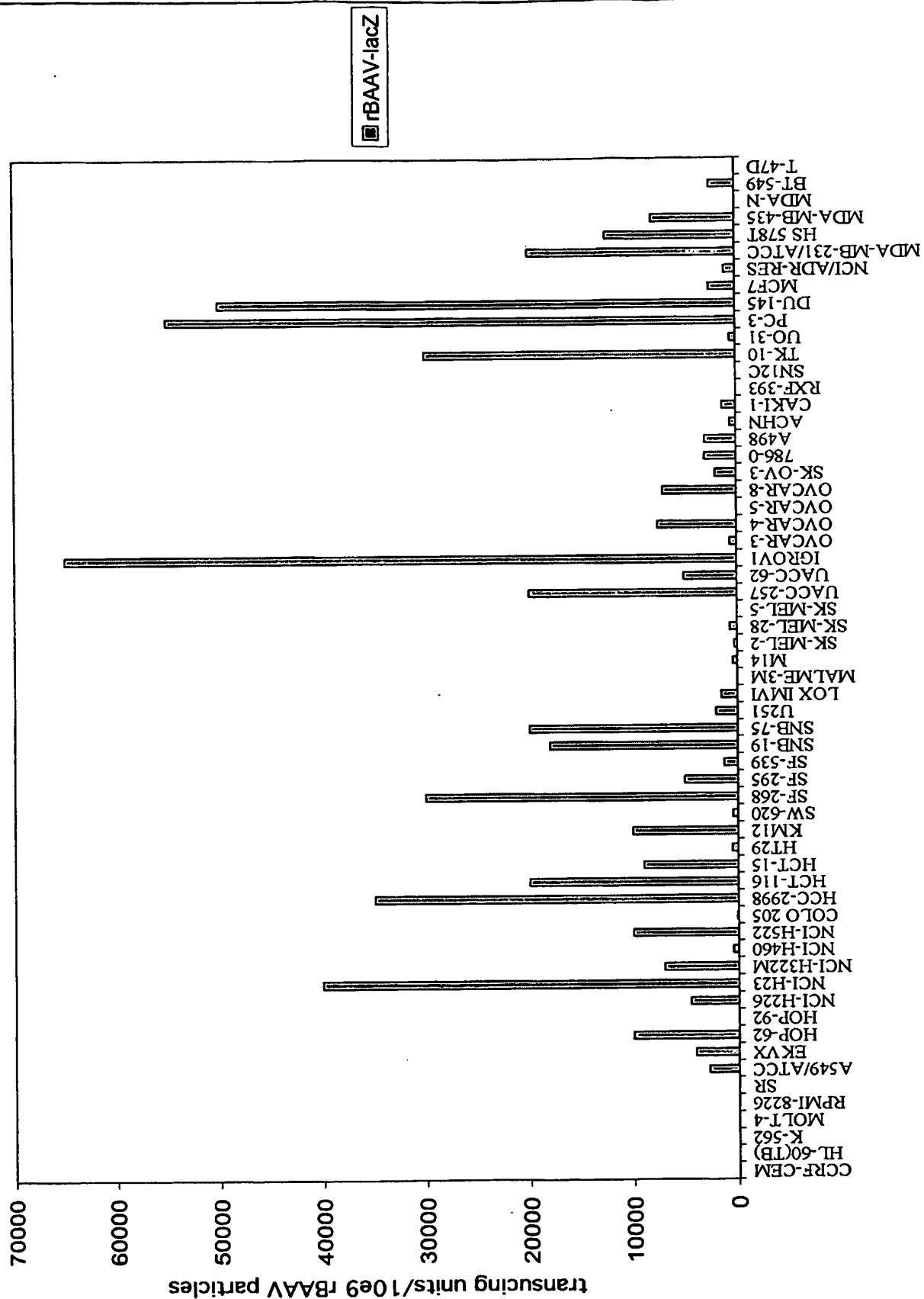


FIG. 4

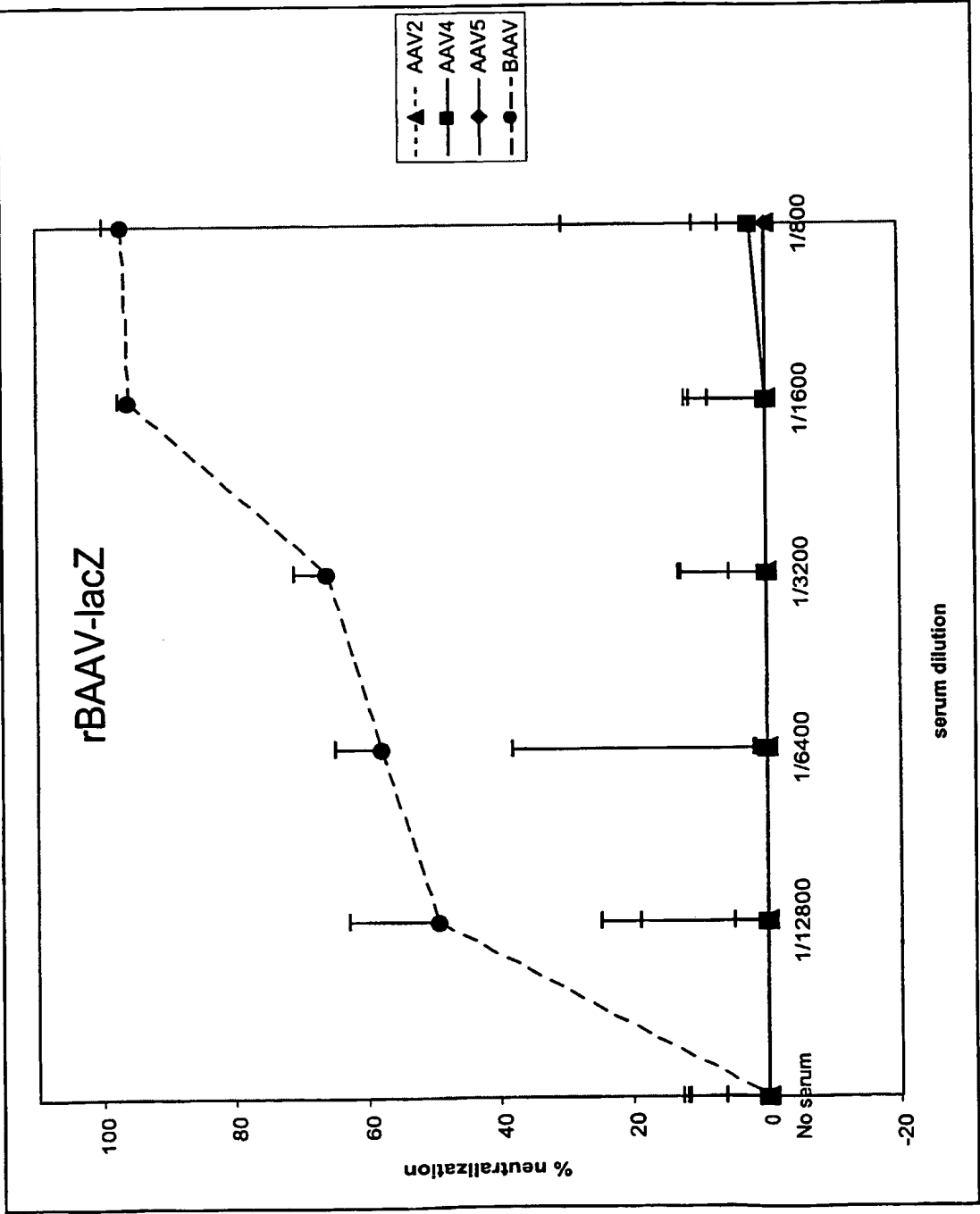


FIG. 5A



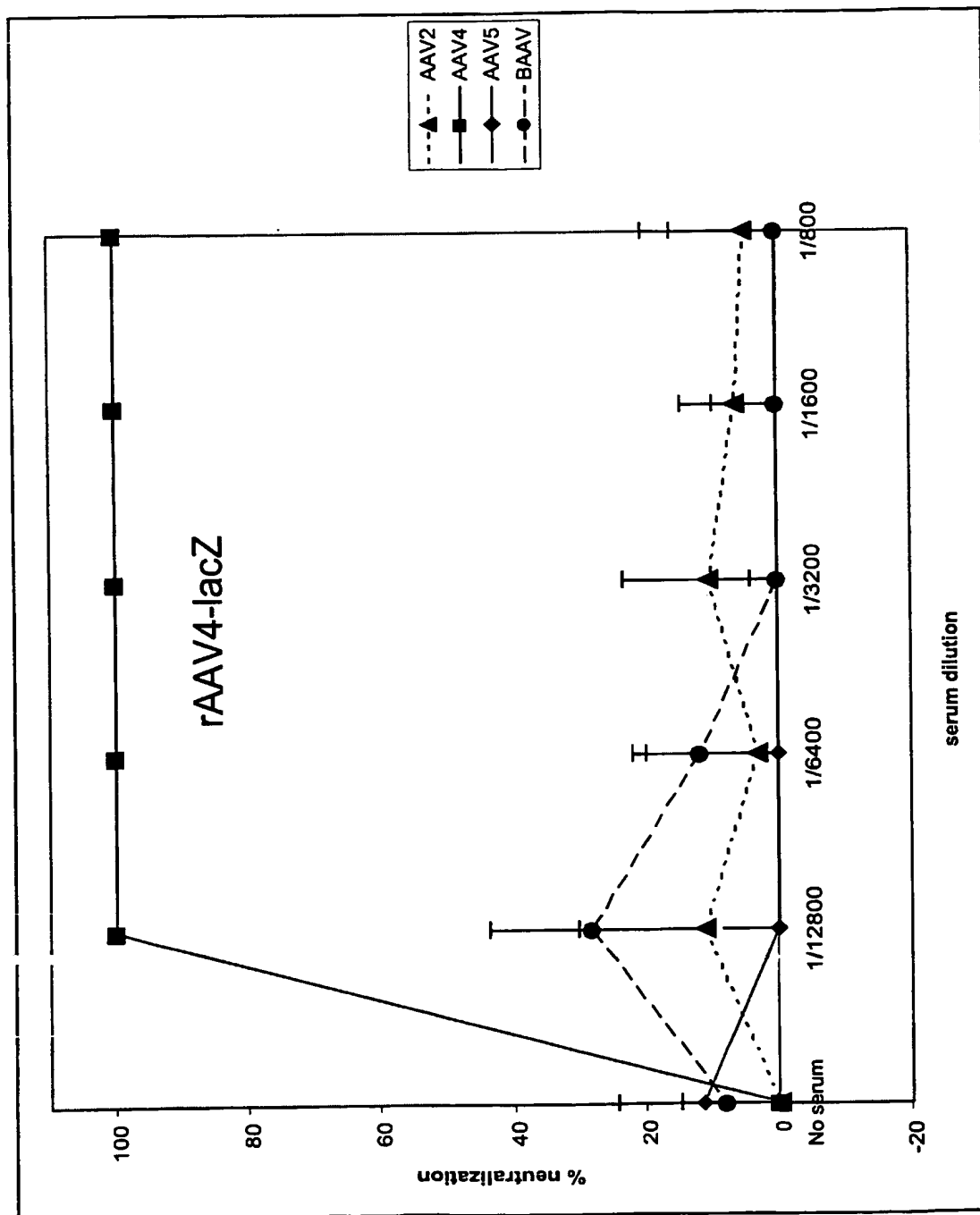


FIG. 5B

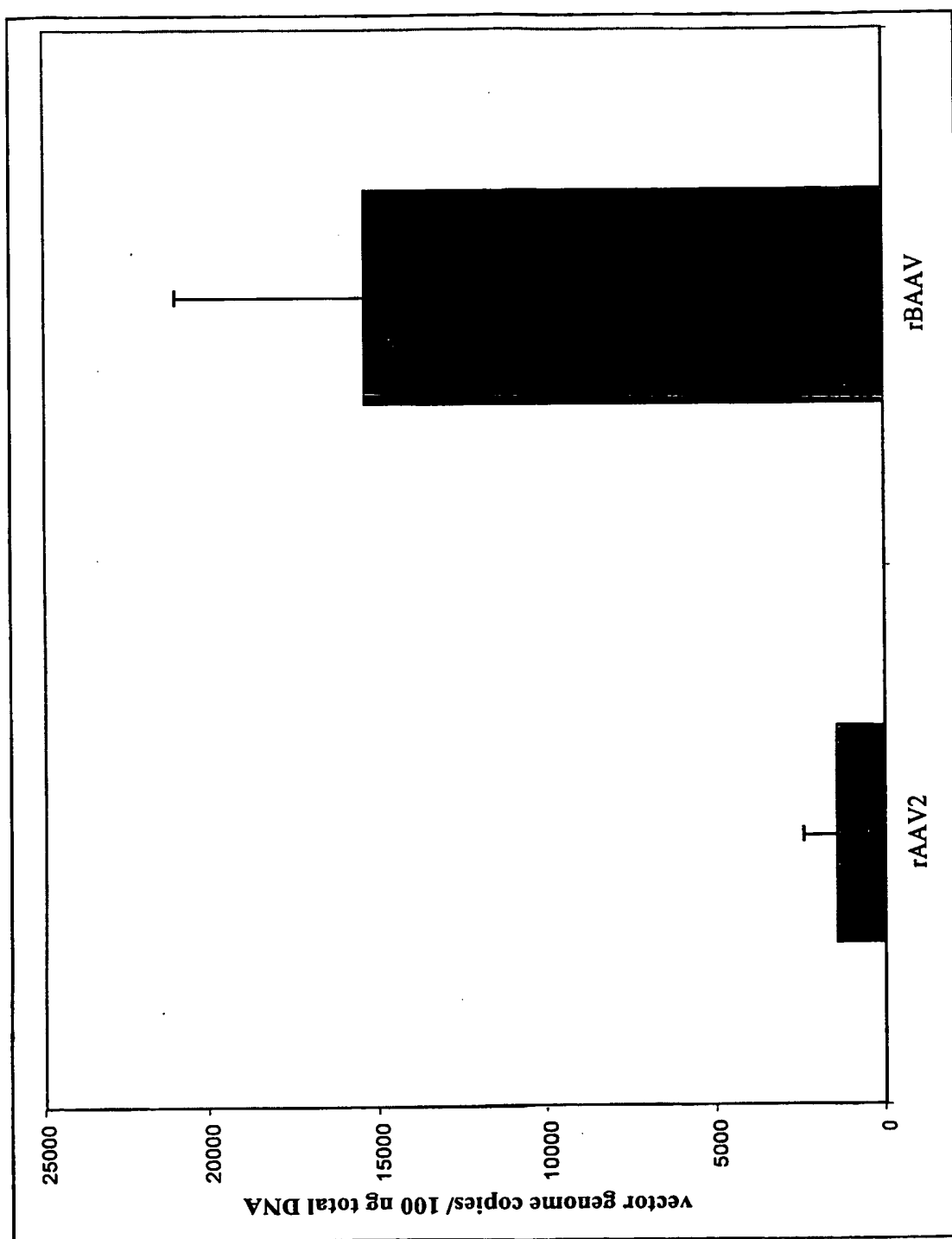


FIG. 6A

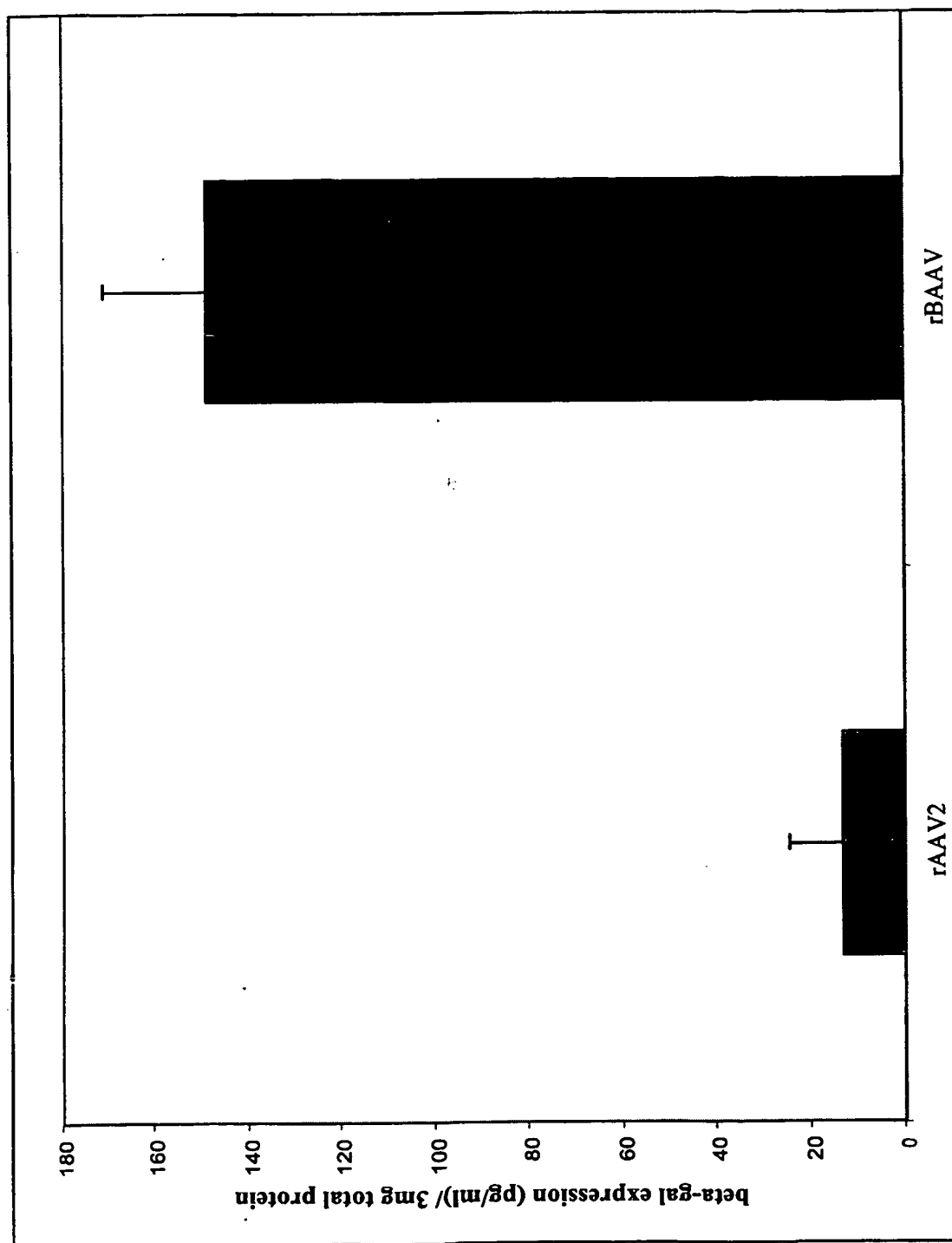


FIG. 6B

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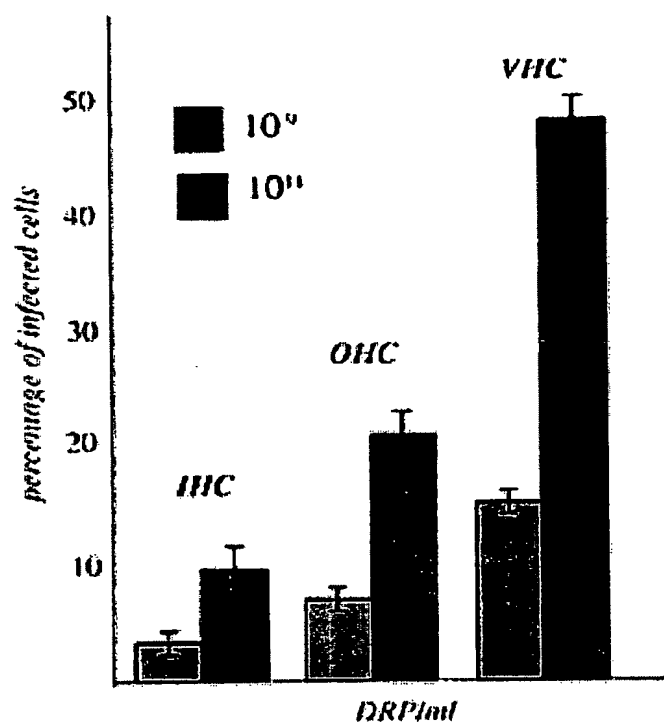


Fig. 7

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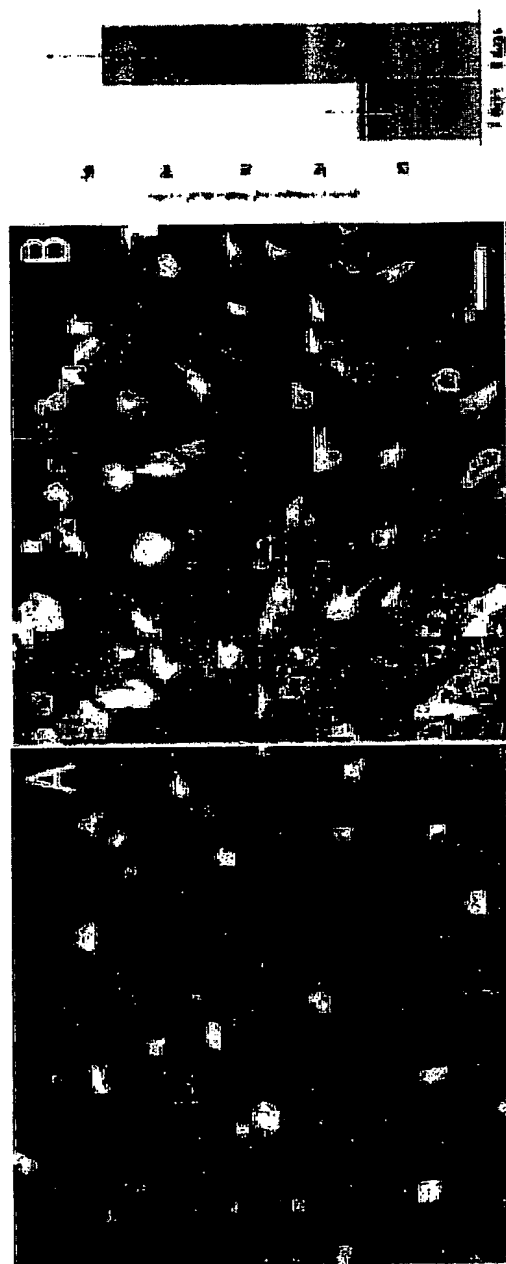


Fig. 8

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**B**

	IHC	OHC	VHC
BAAV	16%	28%	48%
AAV2	4.73%	0%	0%
AAV4	0%	0%	0%
AAV5	0%	0%	1%

# Fig. 9

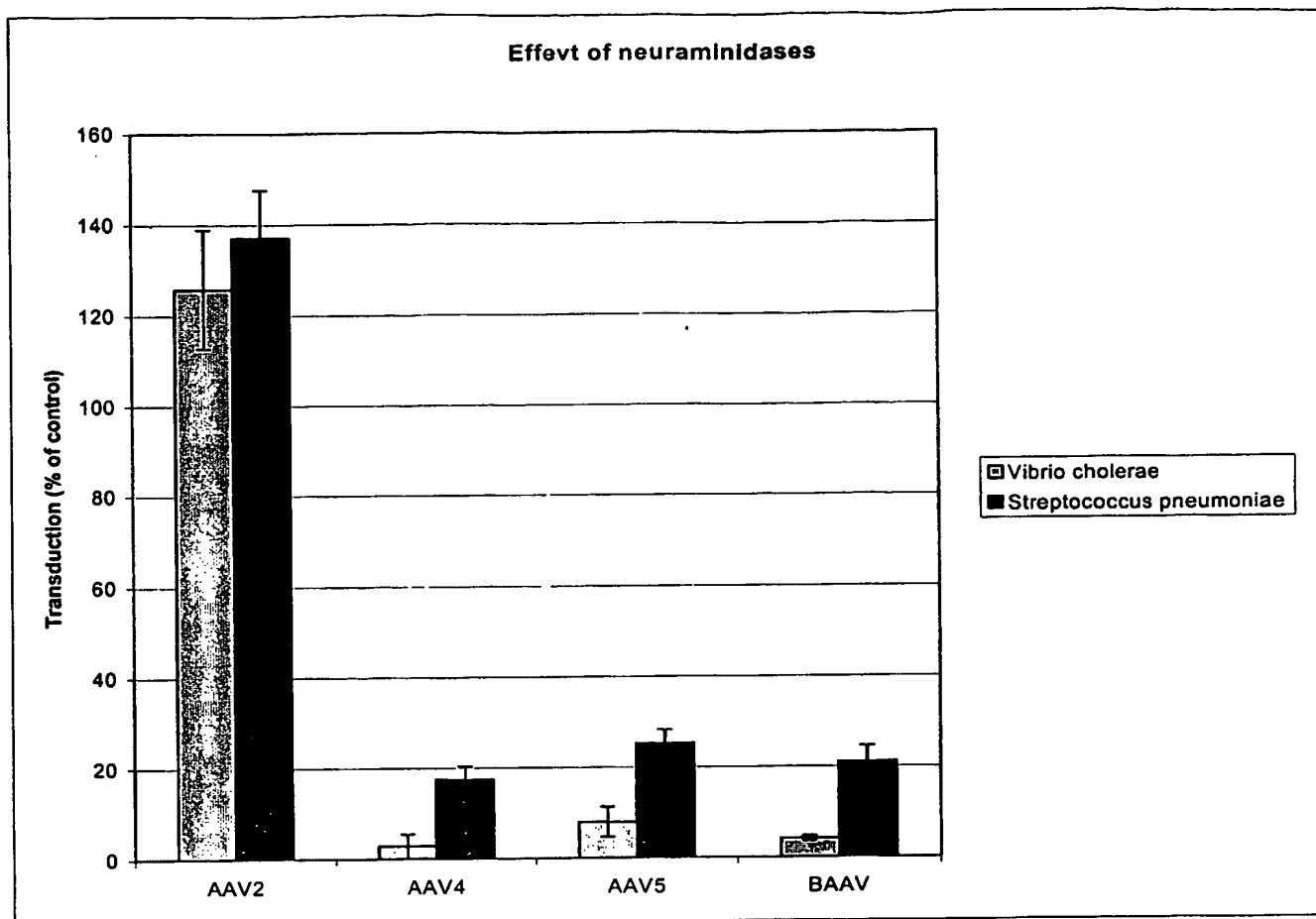


Fig. 10



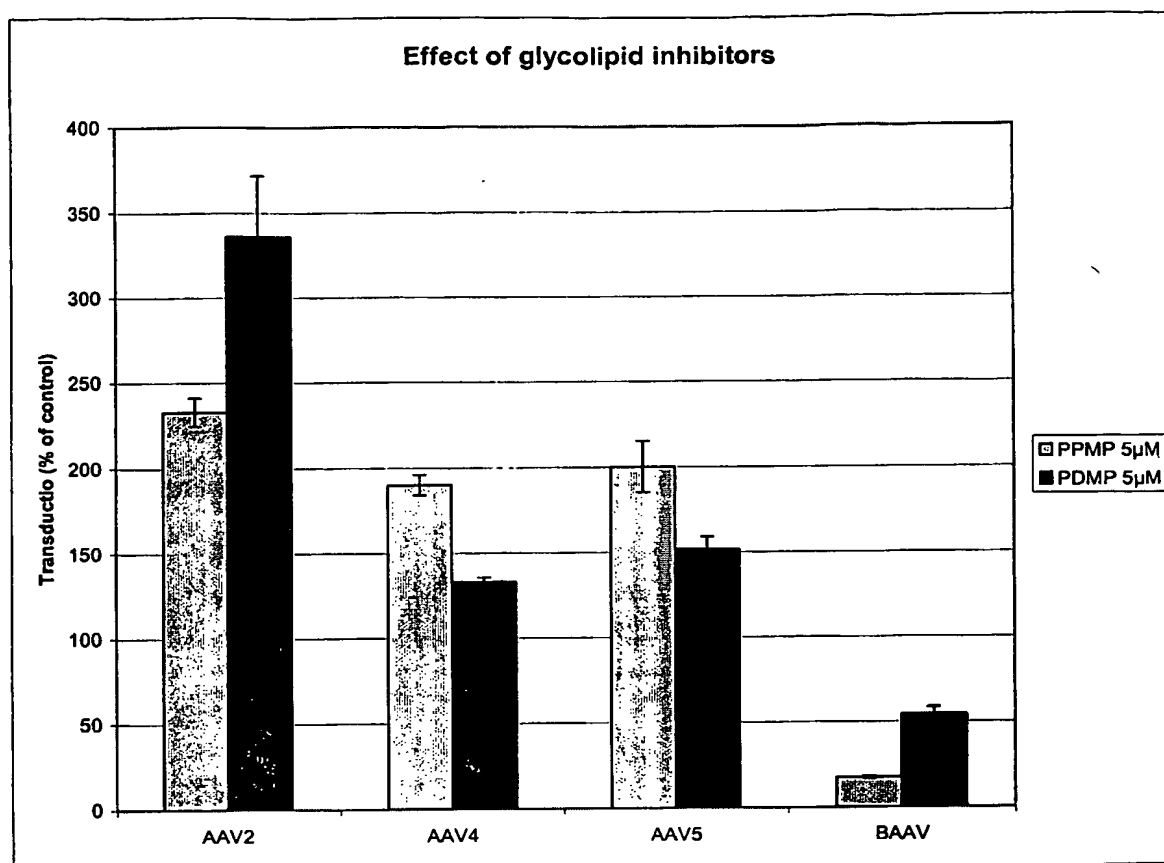


Fig.11

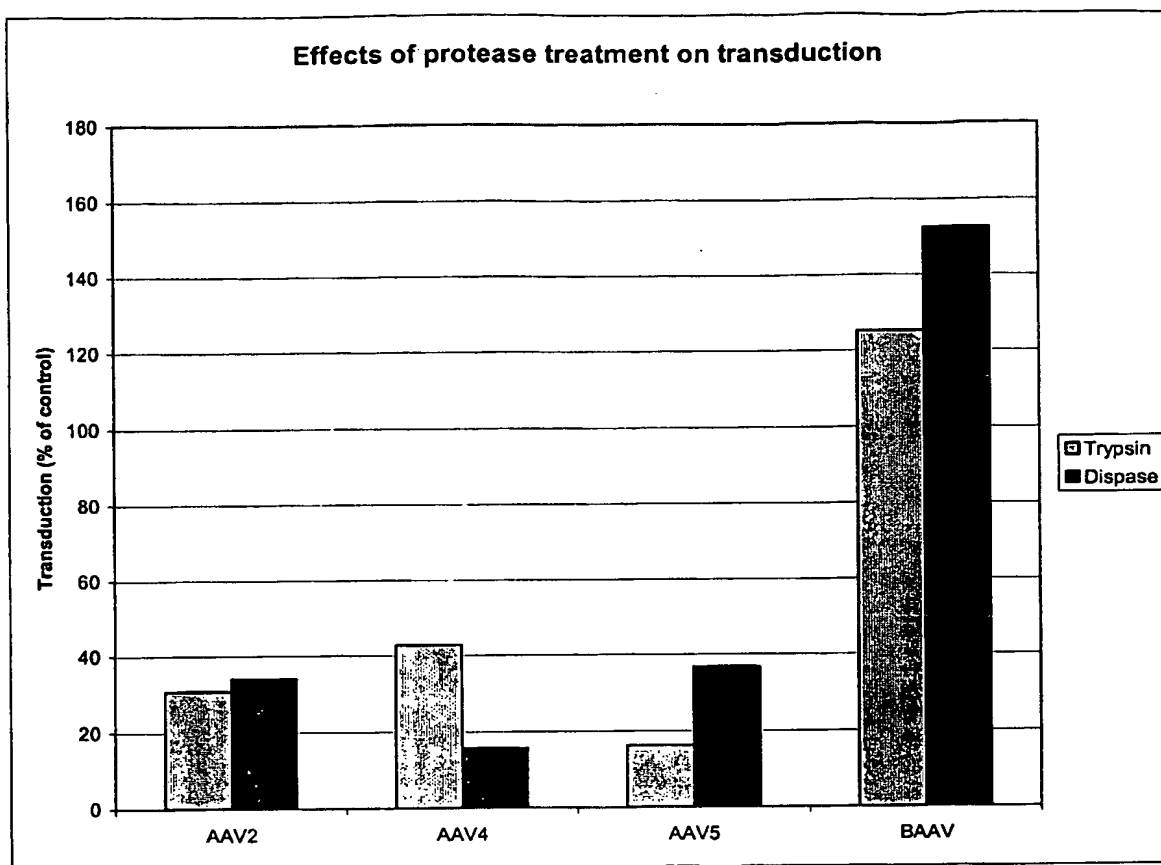


Fig. 12

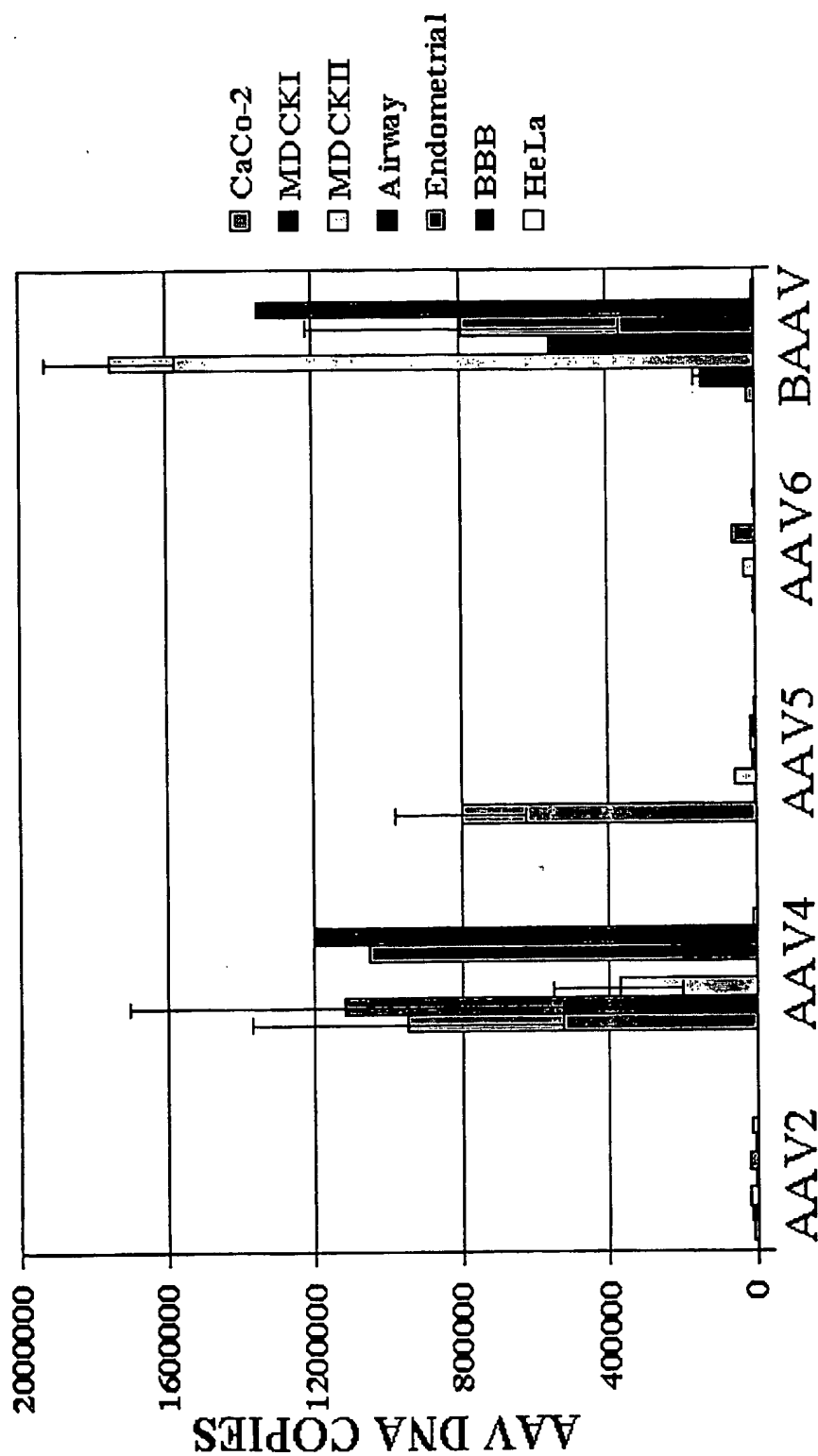


Fig. 13

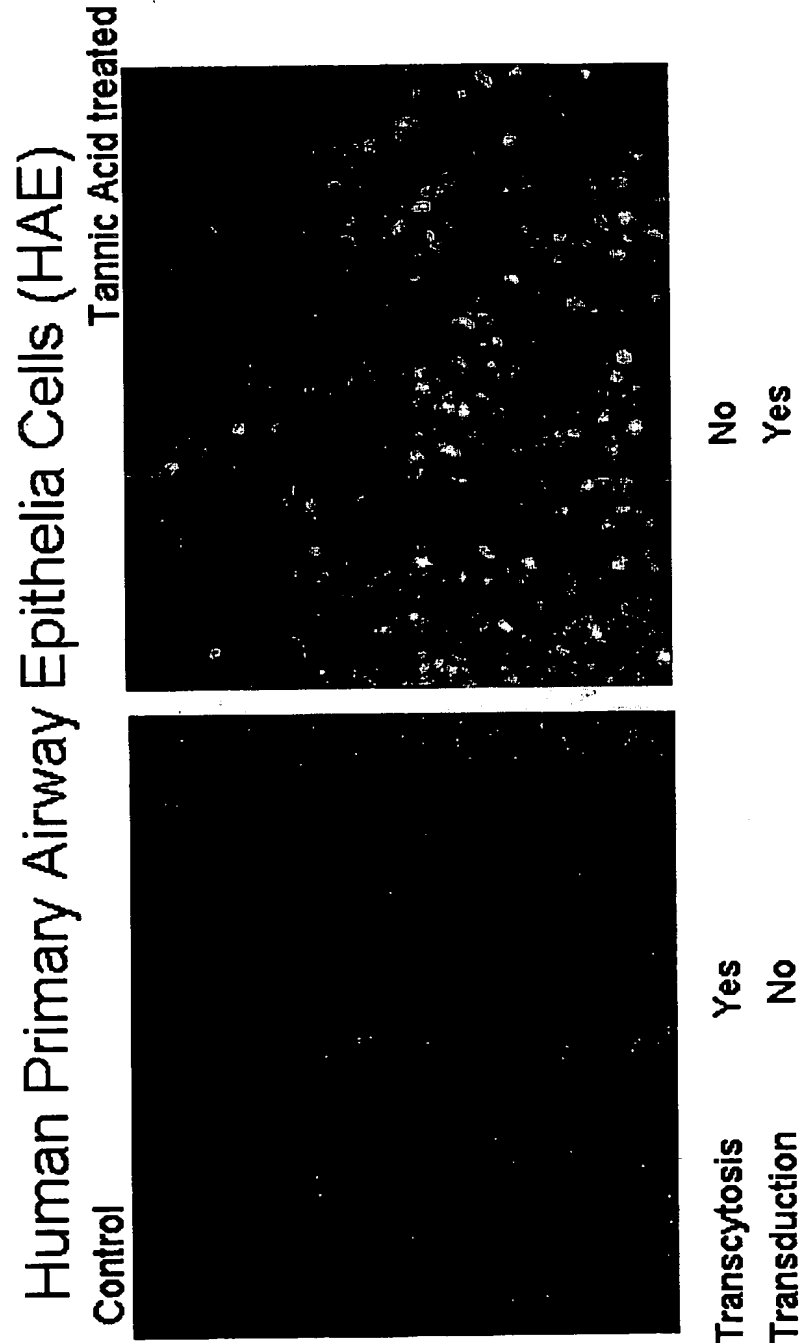
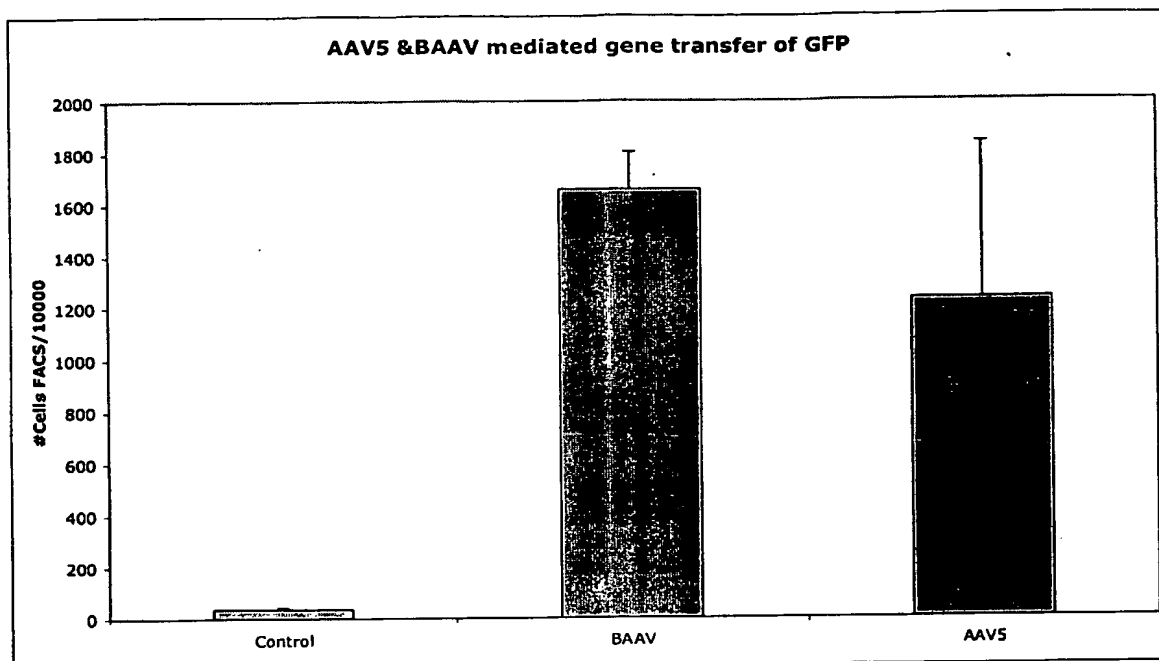


Fig. 14

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# Fig.15